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PTO/SB/96 (08-00)  
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U. S. Patent and Trademark Office: U. S. DEPARTMENT OF COMMERCE

**STATEMENT UNDER 37 CFR 3.73(b)**

Applicant/Patent Owner: Agere Systems Inc.

Application No./Patent No.: 09/464831 Filed/Issued Date: 12/16/1999

Entitled: A Cluster Frame Synchronization Scheme For a Satellite Digital Audio Radio System

Agere Systems Inc corporation  
(Name of Assignee) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.)

States that it is :

1. ☒ [X] the assignee of the entire right, title, and interest; or
2. ☐ [ ] an assignee of less than the entire right, title and interest.  
The extent (by, percentage) of its ownership interest is \_\_\_\_\_ %

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Technology Center 2600

In the patent application/patent identified above by virtue of either:

A. ☐ [ ] An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel\_\_\_\_, Frame\_\_, or for which a copy thereof is attached.

OR

B. ☒ [X] A Chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below:

1. From Inventor(s) To: Lucent Technologies Inc.  
The document was recorded in the United States Patent and Trademark Office at Reel 010482, Frame 0469, or for which a copy thereof is attached.
2. From Lucent Technologies Inc. To: Agere Systems Guardian Corp.  
The document was recorded in the United States Patent and Trademark Office at Reel\_\_\_\_, Frame\_\_\_\_, or for which a copy thereof is attached.
3. From Agere Systems Guardian Corp. To: Agere Systems Inc.  
The document was recorded in the United States Patent and Trademark Office at Reel\_\_\_\_, Frame\_\_\_\_, or for which a copy thereof is attached.

☐ [ ] Additional documents in the chain of title are listed on a supplemental sheet.

☒ [X] Copies of assignments or other documents in the chain of title are attached.

[Note: A separate copy (i.e., the original assignment document or a true copy of the original document) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08]

The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee.

12/4/03

Date

Lester H. Birnbaum

Typed or printed name

Lester H. Birnbaum  
Signature

Attorney

Title

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U. S. Patent And Trademark Office, Washington, D. C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D. C. 202 31.



#4

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## Patent Application

Inventor(s) Habib Riazi  
Zulfiquar Sayeed  
Dunmin Zheng

Case 5-13-5

Serial No. 09/464831

Filing Date 12/16/1999

Examiner Hanh Nguyen

Group Art Unit 2662

Title A Cluster Frame Synchronization Scheme For A Satellite Digital  
Audio Radio System

COMMISSIONER FOR PATENTS ALEXANDRIA VA 22313

SIR:

## REVOCATION OF POWER OF ATTORNEY OR AUTHORIZATION OF AGENT

I hereby revoke all previous powers of attorney or authorization of agent given in the above-identified application. An Agreement Regarding Powers of Attorney and General Appointment of Agent and Power of Attorney is submitted herewith.

Firm Name: Lester H. Birnbaum  
Address: 2159 Greenmeadow Drive  
Macungie, PA 18062  
Telephone: (610) 530-9166 FAX: (610) 530-2695

I represent the assignee of record of the entire interest who is entitled to prosecute this application to the exclusion of the named inventors or the previous assignee pursuant to 37 CFR 3.71. A statement under 37 CFR 3.73(b) is enclosed.

Respectfully,

Lester H. Birnbaum, Attorney  
Reg. No. 25,830  
610-530-9166

Date: 12/14/03

Lester H. Birnbaum  
2159 Greenmeadow Drive  
Macungie, PA

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**AGREEMENT REGARDING  
POWERS OF ATTORNEY**

**by and between**

**LUCENT TECHNOLOGIES INC.**

**and**

**AGERE SYSTEMS INC.**

**Dated as of February 1, 2001**

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## AGREEMENT REGARDING POWERS OF ATTORNEY

This Agreement is effective as of February 1, 2001 between LUCENT TECHNOLOGIES INC., a Delaware corporation ("LUCENT"), having an office at 600 Mountain Avenue, Murray Hill, New Jersey 07974, United States of America, for itself and on behalf of its Subsidiaries (each and all herein after "LUCENT") and AGERE SYSTEMS INC., a Delaware corporation, with offices at 555 Union Boulevard, Allentown, PA 18109, United States of America ("AGERE").

**WHEREAS**, the Board of Directors of LUCENT has determined that it is in the best interests of LUCENT and its stockholders to separate LUCENT's existing businesses into two independent businesses; and


**WHEREAS**, as part of the foregoing, LUCENT has assigned certain United States and corresponding foreign patents and patent applications to AGERE, which patents and applications were filed in the name of LUCENT and various of its subsidiaries and predecessors, including AT&T Corp., a New York corporation and various of its subsidiaries; and

**WHEREAS**, in order to effect its rights under such patents and to prosecute such patent applications, including recording such assignments, AGERE representatives need Power of Attorney from LUCENT and predecessors of LUCENT.

**THEREFORE**, LUCENT agrees to provide AGERE employees and employees of AGERE affiliated companies with Powers of Attorney in the form attached to act for LUCENT, any of its wholly-owned subsidiaries, and any of such predecessors with respect to such issued patents and pending patent applications in the names of LUCENT, such subsidiaries or any of such predecessors.


AGERE agrees to use such Powers of Attorney only with respect to those certain patents and patent applications which were assigned to AGERE by LUCENT.

**LUCENT TECHNOLOGIES INC.**

By:   
Daniel P. McCurdy  
President - Intellectual Property Business

Date: 1/30/01

**AGERE SYSTEMS INC.**

By:   
Gerard A. deBlasi  
Vice President - Law

Date: 1/30/01

**GENERAL APPOINTMENT OF AGENT**

**And**

**POWER OF ATTORNEY**


---

Lucent Technologies Inc., for itself and its subsidiaries, and as successor in interest to patents of AT&T Corp. and its subsidiaries, hereby appoints:

Gerard A. deBlasi  
Fred M. Romano  
Scott W. McLellan  
Richard J. Botos  
Marie MacNichol  
Geraldine Monteleone  
Scott Rittman  
Anthony Grillo  
David Smith  
Robert P. Marley  
John Veschi  
Mark Kurisko  
Les Birnbaum

as agents and attorneys to act on its and on Lucent Technologies Inc.'s behalf before any competent National and International Authorities in connection with any and all patents and patent applications filed by Lucent Technologies Inc., its wholly-owned subsidiaries or its predecessors, or issued or pending in the name of Lucent Technologies Inc., or any of its wholly-owned subsidiaries or predecessors, with the power to further appoint agents, and grant powers of attorney in connection therewith.

Lucent Technologies Inc.

By:   
Daniel P. McCurdy  
President - Intellectual Property Business

Date: 1/30/01

Attorney	Reg. No.
Gerard A. deBlasi	Reg. No. 34149
Fred M. Romano	Reg. No. 32752
Scott W. McLellan	Reg. No. 30776
Richard J. Botos	Reg. No. 32016
Marie MacNichol	Reg. No. 35941
Geraldine Monteleone	Reg. No. 40097
Scott Rittman	Reg. No. 39010
Anthony Grillo	Reg. No. 36535
David Smith	Reg. No. 30592
Robert P. Marley	Reg. No. 32914
John Veschi	Reg. No. 39058
Mark Kurisko	Reg. No. 38944
Les Birnbaum	Reg. No. 25830

**EXECUTION COPY**

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**PATENT ASSIGNMENT**

**by and between**

**LUCENT TECHNOLOGIES INC.**

**and**

**AGERE SYSTEMS GUARDIAN CORP.**

**Dated as of January 30, 2001**

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## PATENT ASSIGNMENT

THIS PATENT ASSIGNMENT (this "Assignment"), effective as of January 30, 2001 (the "Effective Date"), is by and between Lucent Technologies Inc., a Delaware corporation, with offices at 600 Mountain Avenue, Murray Hill, New Jersey 07974, United States of America, ("ASSIGNOR") and Agere Systems Guardian Corp., a Delaware corporation, with offices at 555 Union Boulevard, Allentown, PA 18109, United States of America ("Agere Systems Guardian").

## RECITALS

A. WHEREAS, the Board of Directors of ASSIGNOR has determined that it is in the best interests of ASSIGNOR and its stockholders to separate ASSIGNOR's existing businesses into two independent businesses;

B. WHEREAS, ASSIGNOR presently owns or controls certain patents, patent applications, and invention submissions listed in the attached Appendices A and B (hereinafter "TRANSFERRED PATENTS") and;

C. WHEREAS, in furtherance of the foregoing separation, ASSIGNOR desires to transfer, assign, convey, deliver and vest all of its interests and rights in TRANSFERRED PATENTS for all countries, jurisdictions and political entities of the world, to and in Agere Systems Guardian;

NOW, THEREFORE, in consideration of the premises and for other good and valid consideration, the receipt and sufficiency of which are hereby acknowledged, the parties, intending to be legally bound, agree as follows:

ASSIGNOR, subject to existing rights and licenses of third parties, does hereby assign, convey, transfer and deliver, and agrees to assign, convey, transfer and deliver to Agere Systems Guardian, its successors, assigns and legal representatives or nominees, ASSIGNOR's entire right, title and interest, for all countries, jurisdictions and political entities of the world, along with the right to sue for past infringement, to all TRANSFERRED PATENTS listed on Appendices A and B, and corresponding counterpart foreign patents and patent applications, with respect to which, and to the extent to which, ASSIGNOR now has or hereafter acquires the right to so assign, convey, transfer and deliver. Agere Systems Guardian recognizes that ASSIGNOR holds only bare legal title to the TRANSFERRED PATENTS listed in Appendix A (which lists the United States Patents and patent applications previously exclusively licensed to Lucent Technologies Microelectronics Guardian Corp.).

ASSIGNOR and ASSIGNEE recognize that the patents listed in Appendices A and B may inadvertently include patents that are owned by various subsidiaries of ASSIGNOR, including Agere, Inc., Ortel Corporation, Optimay Corporation, Herrmann Technology, Inc., and Enable Semiconductor, Inc. Ownership of such patents shall not be affected by this Patent

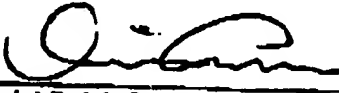


Assignment, and ASSIGNEE agrees that any such patents shall be deemed deleted from Appendices A and B.

ASSIGNOR agrees that, upon request it will, at any time without charge to Agere Systems Guardian, but at Agere Systems Guardian's expense, furnish all necessary documentation relating to or supporting chain of title, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for vesting title to TRANSFERRED PATENTS in Agere Systems Guardian, its successors, assigns and legal representatives or nominees; including but not limited to any acts which may be necessary, desirable or convenient for claiming said rights and for securing and maintaining patents for said inventions in any and all countries and for vesting title thereto in Agere Systems Guardian and its respective successors, assigns and legal representatives or nominees.

IN WITNESS WHEREOF, the parties have caused this PATENT ASSIGNMENT to be executed by their duly authorized representatives as of the Effective Date.

**LUCENT TECHNOLOGIES INC.**

By:   
Daniel P. McCurdy  
President, Intellectual Property Business

**AGERE SYSTEMS GUARDIAN CORP.**

By:   
Fred M. Romano  
President

Execution Copy

ACKNOWLEDGMENTS

STATE OF NEW JERSEY )


: SS:

COUNTY OF SOMERSET )

I CERTIFY that on January 30, 2001, Daniel P. McCurdy personally came before me and this person acknowledged under oath, to my satisfaction that:

a.) this person signed, sealed and delivered the attached Patent Assignment as President - Intellectual Property Business of Lucent Technologies Inc.; and

b.) this Patent Assignment was signed and made by Lucent Technologies Inc. as its voluntary act and deed by virtue of authority from its Board of Directors.



Name TAMORA ANNE HANNA  
Notary Public Notary Public of New Jersey  
My Commission Expires Registered in Hunterdon County  
[Notarial Seal] My Commission Expires March 25, 2002

STATE OF FLORIDA )

: SS:

COUNTY OF ORANGE )

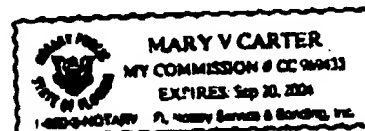
I CERTIFY that on January 31, 2001, Fred M. Romano personally came before me and this person acknowledged under oath, to my satisfaction that:

a.) this person signed, sealed and delivered the attached Patent Assignment as Vice President of Agere Systems Guardian Corp. ; and

b.) this Patent Assignment was signed and made by Agere Systems Guardian Corp. as its voluntary act and deed by virtue of authority from its Board of Directors.



Name  
Notary Public  
My Commission Expires:  
[Notarial Seal]



APPENDIX B (continued)  
Transferred Patents

Case Name	Filing Date	Issue Date	Patent No.	Serial No.
Reynick 1	4/25/2000			09/558130
Rhodes 1-6-16	9/8/1998		09/131440	
Rhodes 3	12/19/1997		08/995269	
Rhodes 4-19	3/19/1998		09/044529	
Riazi 5-13-5	12/16/1999			09/464831
Riazi 6-14-6	12/16/1999			09/464574
Ribble 3	12/24/1998			09/220461
Rittenhouse 3-1	2/4/2000			09/497860
Rodriguez 3-1	7/30/1998		09/126985	
Rohani 1	1/24/2000			09/490432
Rosamilia 8-4	3/10/2000			09/523331
Roy 162-28	8/30/2000		09/651451	
Roy 163-29	8/30/2000		09/651857	
Roychowdhury 6	9/1/1998		09/144799	
Rupp 3	2/27/1998		09/032425	
Rupp 6	9/22/1998		09/158587	
Ryan 12	10/1/1999			09/410686
Ryan 15-1	6/27/2000			09/603717
Ryan 16-2	6/27/2000			09/604519
Sadowski 1-1-8	8/20/1999			09/378248
Sayed 4-22	12/24/1998			09/220722
Sayiner 2-22	12/15/1997		08/991092	
Sayiner 3-23	2/10/1998		09/021328	
Sayiner 4-24	2/10/1998		09/021327	
Sayiner 5	4/30/1998		09/069822	
Schadt 1	9/21/1999			09/400029
Schrope 2	9/23/1991		07/764011	
Schuller 1-4	7/16/1999			09/354232
Schuller 3	10/19/1999			09/420645
Schuller 5	6/2/2000			09/586069
Seetharaman 1	11/26/1997		08/979523	
Shaffer 2-1-9-7	12/13/1999			09/459848
Shaffer 4-3-12-10	12/13/1999			09/459831
Shaffer 5-4-13-11	12/13/1999			09/459439
Shahid 50	10/28/1999			09/430397
Shao 1-10-3	12/17/1999			09/464811
Shao 2-15-11	11/30/1999			09/451053
Shibib 12	12/30/1994		08/366691	
Shibib 20	12/30/1997		09/000930	
Shibib 21	4/29/1998		09/069215	
Shibib 26	8/27/1999			09/384769
Shoaei 4-4	3/9/1999			09/264727
Shofner 1	10/7/1999			09/414221
Shoham 17	8/31/2000		09/652931	
Shoji 48	1/21/1999			09/235007
Shoji 49	3/8/1999			09/264070
Shoji 50	3/24/2000			09/534189
Shoval 2	3/11/1998		09/038423	
Shulman 10	2/10/2000			09/501752
Shulman 4	10/10/1997	5/9/2000	6060935	
Shulman 5	6/30/1998		09/107480	
Shulman 6	7/20/1998	5/30/2000	6069532	
Shulman 7	4/23/1999	5/16/2000	6064258	
Shulman 8	4/23/1999			09/299237
Shulman 9	6/30/1999			09/299142
Simanapalli 9	11/20/1997	6/27/2000	6081921	
Sindalovsky 11	3/21/2000			09/345059
Sindalovsky 7	2/1/1999			09/531368
Singhal 1-1	4/12/1999			09/241073
Singhal 2-2	4/12/1999			09/291157
				09/290321

**CERTIFICATE OF OWNERSHIP AND MERGER**

**OF**

**Agere Systems Guardian Corp.  
(a Delaware corporation)**

**INTO**

**Agere Systems Inc.  
(a Delaware corporation)**

**UNDER SECTION 253 OF THE GENERAL  
CORPORATION LAW OF THE STATE OF DELAWARE**

Agere Systems Inc., a corporation organized and existing under the laws of Delaware ("Corporation"), **DOES HEREBY CERTIFY:**

**FIRST:** The Corporation is the owner of all of the outstanding shares of common stock of Agere Systems Guardian Corp., which is also a business corporation of the State of Delaware.

**SECOND:** On August 22, 2002 the Subsidiary Governance Committee of the Board of Directors of the Corporation adopted the following resolution to merge Agere Systems Guardian Corp. into the Corporation:

**RESOLVED** that Agere Systems Guardian Corp., a Delaware corporation, shall be merged with and into Agere Systems Inc., a Delaware corporation, with Agere Systems Inc. being the surviving corporation, and Agere Systems Inc. shall thereupon assume all of the obligations of Agere Systems Guardian Corp."

**THIRD:** That the merger authorized hereby shall become effective as of 9:00 a.m. Eastern Standard Time on August 31, 2002.

Executed on August 22, 2002

**AGERE SYSTEMS INC.**

By Paul Bento  
Paul Bento, Vice President

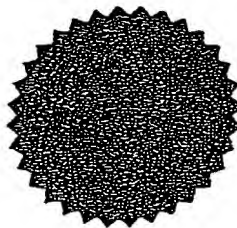
*The First State*

I, HARRIET SMITH WINDSOR, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE CERTIFICATE OF OWNERSHIP, WHICH MERGES:

"AGERE SYSTEMS GUARDIAN CORP.", A DELAWARE CORPORATION,  
WITH AND INTO "AGERE SYSTEMS INC." UNDER THE NAME OF "AGERE SYSTEMS INC.", A CORPORATION ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF DELAWARE, AS RECEIVED AND FILED IN THIS OFFICE THE TWENTY-NINTH DAY OF AUGUST, A.D. 2002, AT 9 O'CLOCK A.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE EFFECTIVE DATE OF THE AFORESAID CERTIFICATE OF OWNERSHIP IS THE THIRTY-FIRST DAY OF AUGUST, A.D. 2002.

A FILED COPY OF THIS CERTIFICATE HAS BEEN FORWARDED TO THE NEW CASTLE COUNTY RECORDER OF DEEDS.



*Harriet Smith Windsor*  
Harriet Smith Windsor, Secretary of State

3268412 8100M

020545223

AUTHENTICATION: 1959517

DATE: 08-29-02